

## CLAIMS

I claim:

1        1. A sliding hammer oil seal remover for pulling an oil seal  
2        seated in a housing comprising:

3        a cylindrical rod having a central axis and having a seal  
4        engaging end and a handle end;

5        a cylindrical hammer having an axial bore of such dimension as  
6        to slide on said cylindrical rod;

7        said cylindrical hammer being slidably mounted on said  
8        cylindrical rod and being spaced from said seal engaging end;

9        a cylindrical impact collar fixedly mounted on said  
10       cylindrical rod near said handle end and coaxial therewith and so  
11       configured as to receive impacts from said cylindrical hammer upon  
12       sliding said hammer along said rod in a direction toward said  
13       handle end;

14       said seal engaging end having a flared portion connected with  
15       and flaring outward from said rod;

16       said flared portion having a flared end; and

17       a seal engaging lip extending from said flared end  
18       perpendicular to said flared portion and generally at a right angle  
19       to said rod axis;

20       whereby said seal engaging end is inserted into the opening of  
21       an oil seal, moved laterally, and pulled outward such that said  
22       seal engaging lip engages the inner surface of the oil seal; and

23       whereby said sliding hammer is slid along said cylindrical rod  
24       in a direction away from said seal engaging end so as to impact  
25       said impact collar with sufficient force so as to unseat said oil  
26       seal from its housing and thus allows pulling force to remove the  
27       seal.

1       2. The seal remover of claim 1, wherein said flared portion  
2       of said seal engaging end tapers from said cylindrical rod into a  
3       generally flattened concave configuration having an upper surface  
4       and a lower surface between said rod and said flared portion end.

1       3. The seal remover of claim 2, wherein seal engaging lip has  
2       a concave upper surface extending downward and perpendicular to  
3       said concave flared portion end and a corresponding convex lower  
4       free end surface at its lower end.

1       4. The seal remover of claim 3, wherein said seal engaging  
2       lip is flat in an axial direction.

1       5. The seal remover of claim 4, wherein said flare portion  
2       end is square relative to said rod axis.

1       6. The seal remover of claim 1, wherein said handle end of  
2       said rod forms a handle for grasping said seal remover.